

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	<b>Docket No.:</b> BECK1120-1	<b>Serial No.:</b> 10/684,268
	<b>Applicants:</b> Montero-Julian and Monseaux	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>Filing Date:</b> October 10, 2003	<b>Group Art Unit:</b> <del>1641</del> 1644

### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	<del>AA</del>	<del>Chersi et al., "Polystyrene Beads Coated with Antibodies Directed to HLA Class I Intracytoplasmic Domain: The Use in Quantitative Measurement of Peptide-HLA Class I Binding by Flow Cytometry", <i>Human Immunology</i>, 61:1298-1306 (2000).</del>
	<del>AB</del>	<del>Flad et al., "Direct Identification of Major Histocompatibility Complex Class I-Bound Tumor-Associated Peptide Antigens of a Renal Carcinoma Cell Line by a Novel Mass Spectrometric Method", <i>Cancer Research</i>, 58(24):5803-5811 (1998).</del>
	<del>AC</del>	<del>Hunt et al., "Characterization of Peptides Bound to the Class I MHC Molecule HLA-A2.1 by Mass Spectrometry", <i>Science</i>, 255:1261-1263 (1992).</del>
	<del>AD</del>	<del>Jensen et al., "A Europium Fluoroimmunoassay for Measuring Peptide Binding to MHC Class I Molecules", <i>Journal of Immunological Methods</i>, 215:71-80 (1998).</del>
	<del>AE</del>	<del>Kozono et al., "Production of Soluble MHC Class II Proteins with Covalently Bound Single Peptides", <i>Nature</i>, 369(6476):151-154 (1994).</del>
/M.D./	AF	Miller et al., "Rapid Determination of Class I Peptide Binding Motifs Using Codon-Based Random Peptide Phage Display Libraries", <i>Journal of Cellular Biochemistry</i> (Supplement), 18D:292 (1994).

<b>EXAMINER</b> GT6529174.1 352039-25	/Marianne DiBrino/	<b>DATE CONSIDERED</b> 05/12/2009
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	<b>AG</b>	Passmore et al., "Preparative-Scale Purification and Characterization of MHC Class II Monomers", <i>Journal of Immunological Methods</i> , 155(2):193-200 (1992).
	<b>AH</b>	Plytycz and Seljelid, "MHC Molecules and Lymphocytes: Evolutionary Perspective", <i>Archivum Immunologiae et Therapiae Experimentalis</i> , 46:137-142 (1998).
	<b>AI</b>	Tompkins et al., "A Europium Fluoroimmunoassay for Measuring Binding of Antigen to Class II MHC Glycoproteins", <i>Journal of Immunological Methods</i> , 163:209-216 (1993).

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<b>FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Application Number	10/684,268
				Filing Date	October 10, 2003
				First Named Inventor	MONTERO-JULIAN, Felix A.
				Art Unit	1641
				Examiner Name	FOSTER, Christine E.
Sheet	1	of	1	Attorney Docket Number	2512.023/0001/KWM/C-K (2147-183-CIP)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	NPL63	Du Pasquier, R.A., <i>et al.</i> , "Low Frequency of Cytotoxic T Lymphocytes against the Novel HLA-A*0201-Restricted JC Virus Epitope VP1 <sub>p36</sub> in Patients with Proven or Possible Progressive Multifocal Leukoencephalopathy", <i>J. Virol.</i> 77:11918-11926, American Society For Microbiology (November 2003)	
	NPL64	Hermans, I.F., <i>et al.</i> , "The VITAL assay: a versatile fluorometric technique for assessing CTL- and NKT-mediated cytotoxicity against multiple targets in vitro and in vivo", <i>J. Immunol. Methods</i> 285:25-40, North-Holland Publishing Co. (February 2004)	
	NPL65	Mallet-Designe, V.I., <i>et al.</i> , "Detection of Low-Avidity CD4 <sup>+</sup> T Cells Using Recombinant Artificial APC: Following the Antiovalbumin Immune Response", <i>J. Immunol.</i> 170:123-131, American Association of Immunologists (January 2003)	
	NPL66	Robert, B., <i>et al.</i> , "Antibody-conjugated MHC class I tetramers can target tumor cells for specific lysis by T lymphocytes", <i>Eur. J. Immunol.</i> 30:3165-3170, VCH Verlagsgesellschaft (2000)	
	NPL67	European Search Report for European Application No. EP 05 74 5499, completed on April 24, 2008, European Patent Office, The Hague, Netherlands	

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	NPL1	BODINIER, M., <i>et al.</i> , "Efficient detection and immunomagnetic sorting of specific T cells using multimers of MHC class I and peptide with reduced CD8 binding," <i>Nat. Med.</i> 6:707-710, Nature Publishing Company (2000)	
	NPL2	BUUS, S., <i>et al.</i> , "The Relation Between Major Histocompatibility Complex (MHC) Restriction and the Capacity of Ia to Bind Immunogenic Peptides," <i>Science</i> 235:1353-1358, American Association for the Advancement of Science (1987)	
	NPL3	CARBONE, F.R., and BEVAN, M.J., "Chapter 18: Major Histocompatibility Complex Control of T Cell Recognition," in <i>Fundamental Immunology 2<sup>nd</sup> Ed.</i> , Paul, W.E., ed., Raven Press Ltd., New York, NY, pp 541-567 (1989)	
	NPL4	CASON, J., <i>et al.</i> , "Analysis of human lymphocyte transformation responses to graded doses of T cell mitogens by curve fitting," <i>J. Immunol. Methods</i> 102:109-117, North-Holland Publishing Co. (1987)	
	NPL5	CELIS, E., <i>et al.</i> , "Induction of anti-tumor cytotoxic T lymphocytes in normal humans using primary cultures and synthetic peptide epitopes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:2105-2109, National Academy of Sciences (1994)	
	NPL6	CONSTANTIN, C.M., <i>et al.</i> , "Major Histocompatibility Complex (MHC) Tetramer Technology: An Evaluation," <i>Biol. Res. Nurs.</i> 4:115-127, Sage Publications, Inc. (October 2002)	
	NPL7	DORNMAIR, K., <i>et al.</i> , "Structural Intermediates in the Reactions of Antigenic Peptides with MHC Molecules," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 54:409-416, Cold Spring Harbor Laboratory Press (1989)	
	NPL8	GELUX, A., <i>et al.</i> , "Identification of Major Epitopes of <i>Mycobacterium tuberculosis</i> AG85B That Are Recognized by HLA-A*0201-Restricted CD8 <sup>+</sup> T Cells in HLA-Transgenic Mice and Humans," <i>J. Immunol.</i> 165:6463-6471, The American Association of Immunologists (2000)	
	NPL9	GERRITSMA, J.S.J., <i>et al.</i> , "The Constant Domain of IgG Is a Possible Target Antigen for Immunotherapy of B Cell Malignancies in HLA-A1 Mismatched Transplantation," <i>Blood</i> 98:404a-405a, The American Society of Hematology (December 2001)	
	NPL10	GORGA, J.C., <i>et al.</i> , "Purification and Characterization of Class II Histocompatibility Antigens from a Homozygous Human B Cell Line," <i>J. Biol. Chem.</i> 262:16087-16094, The American Society for Biochemistry and Molecular Biology (1987)	

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				First Named Inventor	MONTERO-JULIAN, Felix A.
				Art Unit	1641
				Examiner Name	FOSTER, Christine E.
Sheet	2	of	7	Attorney Docket Number	2512.0230001/KWM/C-K

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	NPL11	HANSEN, T.H., and SACHS, D.H., "Chapter 16: The Major Histocompatibility Complex," in <i>Fundamental Immunology 2nd Ed.</i> , Paul, W.E., ed., Raven Press Publishing, New York, NY, pp 445-487 (1989)	
	NPL12	HENDERSON, R.A., <i>et al.</i> , "Direct identification of an endogenous peptide recognized by multiple HLA-A2.1-specific cytotoxic T cells," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 90:10275-10279, National Academy of Sciences (1993)	
	NPL13	HENGEL, H., <i>et al.</i> , "Frequency of Herpes Simplex Virus-Specific Murine Cytotoxic T Lymphocyte Precursors in Mitogen- and Antigen-Driven Primary <i>in vitro</i> T Cell Responses," <i>J. Immunol.</i> 139:4196-4202, The American Association of Immunologists (1987)	
	NPL14	HERR, W., <i>et al.</i> , "Detection and quantification of blood-derived CD8 <sup>+</sup> T lymphocytes secreting tumor necrosis factor $\alpha$ in response to HLA-A2.1-binding melanoma and viral peptide antigens," <i>J. Immunol. Methods</i> 191:131-142, North-Holland Publishing Co. (1996)	
	NPL15	HERR, W., <i>et al.</i> , "The use of computer-assisted video image analysis for the quantification of CD8 <sup>+</sup> T lymphocytes producing tumor necrosis factor $\alpha$ spots in response to peptide antigens," <i>J. Immunol. Methods</i> 203:141-152 North-Holland Publishing Co. (1997)	
	NPL16	HICKLING, J.K., <i>et al.</i> , "Varicella-Zoster Virus-Specific Cytotoxic T Lymphocytes (Tc): Detection and Frequency Analysis of HLA Class I-Restricted Tc in Human Peripheral Blood," <i>J. Virol.</i> 61:3463-3469, American Society For Microbiology (1987)	
	NPL17	HÖRIG, H., <i>et al.</i> , "An <i>in vitro</i> study of the dynamic features of the major histocompatibility complex class I complex relevant to its role as a versatile peptide-receptive molecule," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 94:13826-13831, National Academy of Sciences (1997)	
	NPL18	HUGUES, S., <i>et al.</i> , "Generation and use of alternative multimers of peptide/MHC complexes," <i>J. Immunol. Methods</i> 268:83-92, North-Holland Publishing Co. (October 2002)	
	NPL19	HUNKAPILLER, M.W., <i>et al.</i> , "Isolation of Microgram Quantities of Proteins from Polyacrylamide Gels for Amino Acid Sequence Analysis," <i>Methods Enzymol.</i> 91:227-236, Academic Press (1983)	
	NPL20	KADIVAL, G.V., <i>et al.</i> , "Characterization of Serologic and Cell-Mediated Reactivity of a 38-kDa Antigen Isolated from <i>Mycobacterium tuberculosis</i> ," <i>J. Immunol.</i> 139:2447-2451, The American Association of Immunologists (1987)	
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	NPL21	KAWAKAMI, Y., <i>et al.</i> , "Cloning of the gene coding for a shared human melanoma antigen recognized by autologous T cells infiltrating into tumor," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:3515-3519, National Academy of Sciences (1994)	
	NPL22	KAWAKAMI, Y., <i>et al.</i> , "Identification of the Immune-dominant Peptides of the MART-1 Human Melanoma Antigen Recognized by the Majority of HLA-A2-restricted Tumor Infiltrating Lymphocytes," <i>J. Exp. Med.</i> 180:347-352, Rockefeller University Press (1994)	
	NPL23	KUHNS, J.J., <i>et al.</i> , "Poor Binding of a HER-2/neu Epitope (GP2) to HLA-A2.1 Is Due to a Lack of Interactions with the Center of the Peptide," <i>J. Biol. Chem.</i> 274:36422-36427, The American Society for Biochemistry and Molecular Biology (1999)	
	NPL24	MAEURER, M.J., <i>et al.</i> , "Improved Detection of Melanoma Antigen-Specific T Cells Expressing Low or High Levels of CD8 by HLA-A2 Tetramers Presenting a Melan-A/Mart-1 Peptide Analogue," <i>Int. J. Cancer</i> 97:64-71, Wiley-Liss, Inc. (January 2002)	
	NPL25	MALE, D., "Chapter 2: Antibodies and Antigens," in <i>Immunology: An Illustrated Outline</i> , Bennet, D., ed., Gower Medical Publishing, London, England, p.19-34 (1986)	
	NPL26	MARX, J.L., "Histocompatibility Restriction Explained," <i>Science</i> 235:843-844, American Association for the Advancement of Science (1987)	
	NPL27	MEN, Y., <i>et al.</i> , "Assessment of Immunogenicity of Human Melan-A Peptide Analogues in HLA-A*0201/K <sup>b</sup> Transgenic Mice," <i>J. Immunol.</i> 162:3566-3573, The American Association of Immunologists (1999)	
	NPL28	ROBINSON, M.A., and KINDT, T.J., "Chapter 17: Major Histocompatibility Complex Antigens and Genes," in <i>Fundamental Immunology 2nd Ed.</i> , Paul, W.E., ed., Raven Press Ltd., New York, NY, pp 489-539 (1989)	
	NPL29	ROITT, I.M., <i>et al.</i> , eds., "Chapter 5: Antibody Structure and Function," in <i>Immunology</i> , Gower Medical Publishing, London, England, p.5.7, (1986)	
	NPL30	RUPPERT, J., <i>et al.</i> , "Prominent Role of Secondary Anchor Residues in Peptide Binding to HLA-A2.1 Molecules," <i>Cell</i> 74:929-937, Cell Press (1993)	

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	NPL31	SAMELSON, L.E., <i>et al.</i> , "T Cell Antigen Receptor Phosphorylation Induced by an Anti-Receptor Antibody," <i>J. Immunol.</i> 139:2708-2714, The American Association of Immunologists (1987)	
	NPL32	SETTE, A., <i>et al.</i> , "Structural characteristics of an antigen required for its interaction with Ia and recognition by T cells," <i>Nature</i> 328:395-399, Nature Publishing Group (1987)	
	NPL33	SMITH, J.D., <i>et al.</i> , "Extensive peptide ligand exchange by surface class I major histocompatibility complex molecules independent of exogenous $\beta_2$ -microglobulin," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89:7767-7771, National Academy of Sciences (1992)	
	NPL34	SØRENSEN, A.L., <i>et al.</i> , "Purification and Characterization of a Low-Molecular-Mass T-Cell Antigen Secreted by <i>Mycobacterium tuberculosis</i> ," <i>Infect. Immun.</i> 63:1710-1717, American Society For Microbiology (1995)	
/M.D./	NPL35	Springfrog, "Temperature Converter," accessed online at <a href="http://springfrog.com/converter/temperature.htm">http://springfrog.com/converter/temperature.htm</a> , 2 pages (accessed 2008)	
	NPL36	THORLEY-LAWSON, D.A., and ISRAELSOHN, E.S., "Generation of specific cytotoxic T cells with a fragment of the Epstein-Barr virus-encoded p63/latent membrane protein," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 84:5384-5388, National Academy of Sciences (1987)	
	NPL37	TSIEN, R.Y., <i>et al.</i> , "T-cell mitogens cause early changes in cytoplasmic free $Ca^{2+}$ and membrane potential in lymphocytes," <i>Nature</i> 295:68-71, Nature Publishing Group (1982)	
	NPL38	TSOMIDES, T.J., <i>et al.</i> , "An optimal viral peptide recognized by CD8 <sup>+</sup> T cells binds very tightly to the restricting class I major histocompatibility complex protein on intact cells but not to the purified class I protein," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 88:11276-11280, National Academy of Sciences (1991)	
	NPL39	TURNER, M.J., <i>et al.</i> , "Purification of Papain-solubilized Histocompatibility Antigens from a Cultured Human Lymphoblastoid Line, RPMI 4265," <i>J. Biol. Chem.</i> 250:4512-4519, American Society for Biochemistry and Molecular Biology (1975)	
	NPL40	VALMORI, D., <i>et al.</i> , "Diversity of the Fine Specificity Displayed by HLA-A*0201-Restricted CTL Specific for the Immunodominant Melan-A/MART-1 Antigenic Peptide," <i>J. Immunol.</i> 161:6956-6962, The American Association of Immunologists (1998)	

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				Art Unit	1641 1644
				Examiner Name	FOSTER, Christine E. /Marianne DiBrino/
Sheet	5	of	7	Attorney Docket Number	2512.0230001/KWM/C-K

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T <sup>2</sup>
	NPL41	VAN DER BURG, S.H., <i>et al.</i> , "An HLA Class I Peptide-Binding Assay Based on Competition for Binding to Class I Molecules on Intact Human B Cells: Identification of Conserved HIV-1 Polymerase Peptides Binding to HLA-A*0301," <i>Hum. Immunol.</i> 44:189-198, Elsevier/North-Holland (1995)	
	NPL42	VAN DER BURG, S.H., <i>et al.</i> , "Immunogenicity of Peptides Bound to MHC Class I Molecules Depends on the MHC-Peptide Complex Stability," <i>J. Immunol.</i> 156:3308-3314, The American Association of Immunologists (1996)	
/M.D./	NPL43	"2006 Annual Immune Epitope Database and Discovery Workshop Meeting Report Executive Summary," at <i>The Third Annual Immune Epitope Database and Discovery Workshop</i> held on November 7 and 8, 2006 in North Bethesda, Maryland, 3 pages (January 2007)	
	NPL44	ARNOLD, P.Y., <i>et al.</i> , "The Majority of Immunogenic Epitopes Generate CD4 <sup>+</sup> T Cells That Are Dependent on MHC Class II-Bound Peptide-Flanking Residues," <i>J. Immunol.</i> 169:739-749, The American Association of Immunologists (July 2002)	
	NPL45	BELMARES, M.P., <i>et al.</i> , "Structural Factors Contributing to DM Susceptibility of MHC Class II/Peptide Complexes," <i>J. Immunol.</i> 169:5109-5117, The American Association of Immunologists (November 2002)	
	NPL46	BERCOVICI, N., <i>et al.</i> , "New Methods for Assessing T-Cell Responses," <i>Clin. Diagn. Lab. Immunol.</i> 7:859-864, American Society for Microbiology (2000)	
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	NPL48	CALL, M.E., <i>et al.</i> , "Stoichiometry of the T-cell receptor-CD3 complex and key intermediates assembled in the endoplasmic reticulum," <i>EMBO J.</i> 23:2348-2357, Oxford University Press (June 2004)	
	NPL49	CALL, M.E., and Wucherpfennig, K.W., "The T Cell Receptor: Critical Role of the Membrane Environment in Receptor Assembly and Function," <i>Annu. Rev. Immunol.</i> 23:101-125, Annual Reviews (April 2005)	
	NPL50	DUTOIT, V., <i>et al.</i> , "Functional Avidity of Tumor Antigen-Specific CTL Recognition Directly Correlates with the Stability of MHC/Peptide Multimer Binding to TCR," <i>J. Immunol.</i> 168:1167-1171, American Association of Immunologists (February 2002)	

Examiner Signature	/Marianne DiBrino/	Date Considered	05/12/2009
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<b>FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				Application Number	10/684,268
				Filing Date	October 10, 2003
				First Named Inventor	MONTERO-JULIAN, Felix A.
				Art Unit	1641
				Examiner Name	FOSTER, Christine E.
Sheet	6	of	7	Attorney Docket Number	2512.0230001/KWM/C-K

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	NPL51	GRETEN, T.F., and SCHNECK, J.P., "Development and Use of Multimeric Major Histocompatibility Complex Molecules," <i>Clin. Diagn. Lab. Immunol.</i> 9:216-220, American Society for Microbiology (March 2002)	
	NPL52	KLEIN, J., and SATO, A., "The HLA System - Second of Two Parts," <i>N. Engl. J. Med.</i> 343:782-786, Massachusetts Medical Society (September 2000)	
	NPL53	MCMICHAEL, A.J., and KELLEHER, A., "The arrival of HLA class II tetramers," <i>J. Clin. Invest.</i> 104:1669-1670, American Society for Clinical Investigation (1999)	
	NPL54	NEPOM, G.T., et al., "HLA Class II Tetramers - Tools for Direct Analysis of Antigen-Specific CD4+ T Cells," <i>Arthritis Rheum.</i> 46:5-12, Wiley-Liss, Inc. (January 2002)	
	NPL55	OGG, G.S., and MCMICHAEL, A.J., "HLA-peptide tetrameric complexes," <i>Curr. Opin. Immunol.</i> 10:393-396, Current Biology (1998)	
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	NPL57	RÖTZSCHKE, O., et al., "Conformational variants of class II MHC/peptide complexes induced by N- and C-terminal extensions of minimal peptide epitopes," <i>Proc. Natl. Acad. Sci. USA</i> 96:7445-7450, National Academy of Sciences (1999)	
	NPL58	SLIZ, P., et al., "Crystal Structures of Two Closely Related but Antigenically Distinct HLA-A2/Melanocyte-Melanoma Tumor-Antigen Peptide Complexes," <i>J. Immunol.</i> 167:3276-3284, The American Association of Immunologists (September 2001)	
	NPL59	STONE, J.D., et al., "T-Cell Activation by Soluble MHC Oligomers Can Be Described by a Two-Parameter Binding Model," <i>Biophys. J.</i> 81:2547-2557, Biophysical Society (November 2001)	
	NPL60	WELSH, R.M., "Assessing CD8 T Cell Number and Dysfunction in the Presence of Antigen," <i>J. Exp. Med.</i> 193:F19-F22, The Rockefeller University Press (March 2001)	

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	NPL61	WOLL, M.M., <i>et al.</i> , "Direct Measurement of Peptide-Specific CD8+ T-cells Using HLA-A24g Dimer for Monitoring the <i>In Vivo</i> Immune Response to a HER2/neu Vaccine in Breast and Prostate Cancer Patients," <i>J. Clin. Immunol.</i> 24:449-461, Kluwer Academic/Plenum Publishers (July 2004)	
	NPL62	ZARUTSKIE, J.A., <i>et al.</i> , "A Conformational Change in the Human Major Histocompatibility Complex Protein HLA-DR1 Induced by Peptide Binding," <i>Biochemistry</i> 38:5878-5887, American Chemical Society (1999)	

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